

## EAST Search History

| Ref #    | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|----------|------|--|--|------------------|---------|------------------|
| S15      | 22   | S13 and storage and control\$3   | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/31 12:29 |
| S25      | 5074 | CCD and (photoelectric\$4 or spectrometer) and storage and control\$4  | USPAT;<br>DERWENT  | OR               | ON      | 2007/09/04 08:18 |
| S26      | 4335 | CCD and (convert\$4 and (control\$4 with shutter))   | USPAT;<br>DERWENT  | OR               | ON      | 2007/09/04 08:15 |
| S38      | 8    | S37 and (transfer with sequential\$4)  | USPAT;<br>DERWENT  | OR               | ON      | 2007/09/04 08:18 |
| S52      | 28   | ("4148065"   "4314281"   "4448526"   "4598997"   "4648053"   "4652125"   "4659220"   "4691365"   "4692690"   "4701784"   "4703442"   "4707734").PN. OR ("4933983").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/08/31 10:07 |
| S55      | 837  | 250/459.1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/20 12:52 |
| S64      | 903  | (specimen\$4 or sample) and convert\$4 and (control same (shutter with signal)) and time   | USPAT;<br>DERWENT  | OR               | ON      | 2007/09/04 08:15 |
| S12<br>7 | 265  | CCD and (controller same (shutter with signal) and (transfer with signal))   | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:08 |
| S12<br>8 | 4    | S127 and fluorescence  | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:07 |
| S12<br>9 | 2    | S127 and fluorescence and (specimen)   | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:07 |
| S13<br>0 | 0    | S127 and 250/484.2.ccls.   | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:08 |
| S13<br>1 | 19   | S127 and "250"\$.ccls.   | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:09 |
| S13<br>2 | 2    | ("4471228").PN.  | USPAT;<br>DERWENT  | OR               | ON      | 2007/08/17 11:09 |
| S13<br>3 | 48   | ("3934161"   "3944816"   "4338514"   "4340819").PN. OR ("4471228").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/08/17 11:11 |
| S13<br>4 | 4    | ("4471228" "5821547" "6590611" "7154599").PN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/08/17 11:11 |

## EAST Search History

|          |       |   |                              |    |    |                  |
|----------|-------|---|------------------------------|----|----|------------------|
| S13<br>5 | 6     | ("5194916"   "5323010"  <br>"6157037"   "6207961"  <br>"6825927"   "7084409").PN. OR<br>("7154599").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:12 |
| S13<br>6 | 22    | ("4804850"   "5210015"  <br>"5315993"   "5928907"  <br>"5994056"   "6015534"  <br>"6015674"   "6043880"  <br>"6084667"   "6140054"  <br>"6144448"   "6174670"  <br>"6337435"   "6340589"  <br>"6369893"   "6373568"  <br>"6403970"   "6498440").PN. OR<br>("6825927").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:24 |
| S13<br>7 | 19    | ("3992631"   "4498780"  <br>"5217876"   "5252834"  <br>"5371016"   "5473437").PN. OR<br>("6144448").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:24 |
| S13<br>8 | 80    | ("3074853"   "3449488"  <br>"3449571"   "3473027"  <br>"3666421"   "3770383"  <br>"3806256"   "3826619"  <br>"3831137"   "3916205"  <br>"3918812"   "3941876").PN. OR<br>("3992631").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:27 |
| S14<br>2 | 11    | (fluoresc\$6 ) and (specimen or<br>sample) and (control\$4and<br>(shutter and tranfer))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:28 |
| S14<br>5 | 1     | (CCD and (specimen or sample)<br>and (controller and (shutter and<br>tranfer)))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:30 |
| S14<br>6 | 13893 | (CCD and (specimen or sample)<br>and (controller ))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:31 |
| S14<br>7 | 277   | S146 and fluorometer  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:42 |
| S14<br>8 | 194   | S147 and laser  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:31 |
| S14<br>9 | 6     | S148 and (charge with storage)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:31 |

## EAST Search History

|                   |     |   |                              |    |    |                  |
|-------------------|-----|---|------------------------------|----|----|------------------|
| S15<br>0          | 179 | ("2719214"   "3013467"  <br>"3423581"   "3516736"  <br>"3849654"   "3885162"  <br>"3932023"   "4011451"  <br>"4067653"   "4074939"  <br>"4076420"   "4100416"  <br>"4144452"   "4150870"  <br>"4203670"   "4240751"  <br>"4296326"   "4397560"  <br>"4451149"   "4451433"  <br>"4485430"   "4501970"  <br>"4567847"   "4591550"  <br>"4626684"   "4646214"  <br>"4685801"   "4699512"  <br>"4704255"   "4707067"  <br>"4730921"   "4737464"  <br>"4738825"   "4741619"  <br>"4753501"   "4758786"  <br>"4762420"   "4772453"  <br>"4784275"   "4802768"  <br>"4808828"   "4810096"  <br>"4826660"   "4855930"  <br>"4868103"   "4873633"  <br>"4877965"   "4885087"  <br>"4892409"   "4897548"  <br>"4923819"   "4931402"  <br>"4936682"   "4948442"  <br>"4963815"   "4968148"  <br>"4979821"   "5001725"  <br>"5009488"   "5018866"  <br>"5020995"   "5034613"  <br>"5039219"   "5047215"  <br>"5058045"   "5082628"  <br>"5084246"   "5091652"  <br>"5095517"   "5096807"  <br>"5164319"   "5169601"  <br>"5192510"   "5196709"  <br>"5198670"   "5206568"  <br>"5208161"   "5208651"  <br>"5216488"   "5225164"  <br>"5257202"   "5270788"  <br>"5273718"   "5275951"  <br>"5281825"   "5289407"  <br>"5307144"   "5315015"  <br>"5317485"   "5319436"  <br>"5323008"   "5323010"  <br>"5340716"   "5340747"  <br>"5341215"   "5353112"  <br>"5355215"   "5357095"  <br>"5361626"   "5384093"  <br>"5401465"   "5418371"  <br>"5420408"   "5436718"  <br>"5445935"   "5449921"  <br>"5457527"   "5459300"  <br>"5480804"   "5485530"  <br>"5487872"   "5491343"  <br>"5500188"   "5504337"  <br>"5511407"   "5517277" | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/17 11:41 |
| 9/4/07 8:21:21 AM |     | C:\Documents and Settings\Polyzos\My Documents\EAST\Workspaces\10529653\10529653.wsp  |                              |    |    | Page 3           |

## EAST Search History

|          |       |  |  |    |    |                  |
|----------|-------|--|--|----|----|------------------|
| S15<br>1 | 13    | S146 and S150  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:43 |
| S15<br>4 | 2     | (CCD and (control\$4) and shutter<br>and tranfer and signal and<br>fluoresc\$4)                    | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:44 |
| S15<br>5 | 87    | (CCD and (control\$4 and<br>consecutively) and shutter and<br>transfer and signal and fluoresc\$4) | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:45 |
| S15<br>6 | 1800  | (CCD and (control\$4) and shutter<br>and transfer and signal and<br>fluoresc\$4)                   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:46 |
| S15<br>7 | 100   | maruno.in.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:46 |
| S15<br>8 | 858   | iwase.in.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:46 |
| S15<br>9 | 27858 | sato.in.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:46 |
| S16<br>0 | 16    | S156 and (S157 or S158 or S159)  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:50 |
| S16<br>1 | 4     | CCD and fluorescent and specimen<br>and (excit\$4 adj pulse) and<br>interval                       | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/17 11:50 |
| S16<br>2 | 33    | "4480190"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/20 12:48 |
| S16<br>3 | 1     | (fluoresc\$6 ) and (specimen or<br>sample) and S162  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/20 12:52 |

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|          |     |  |  |    |    |                  |
|----------|-----|--|--|----|----|------------------|
| S16<br>4 | 37  | ("4016863"   "4187856"  <br>"4221567"   "4233513"  <br>"4273636"   "4301809"  <br>"4381011"   "4423739"  <br>"4424276"   "4480190"  <br>"4567748"   "4576590"  <br>"4596931"   "4643192"  <br>"4671287"   "4677143"  <br>"4803992"   "4854321"  <br>"4859858"   "4859859"  <br>"4901727"   "4907166"  <br>"4914720"   "4949724"  <br>"4996990"   "5020537"  <br>"5031623"   "5042522"  <br>"5067492"   "5095913"  <br>"5115811"   "5158083"  <br>"5174290"   "5176882"  <br>"5186172"   "5193544").PN. OR<br>("6134462").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/20 12:51 |
| S16<br>5 | 219 | 250/484.2.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/20 12:52 |
| S16<br>6 | 31  | (fluoresc\$6 ) and (specimen or<br>sample) and S165  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/20 12:52 |
| S16<br>7 | 3   | "59104519"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/31 10:12 |
| S16<br>8 | 2   | ("4471228").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/31 10:12 |
| S16<br>9 | 48  | ("3934161"   "3944816"  <br>"4338514"   "4340819").PN. OR<br>("4471228").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 10:14 |
| S17<br>0 | 12  | (CCD and (controller and (transfer<br>adj signal) and (electronic adj<br>signal) and storage and<br>photoelectric\$4))   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:49 |

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|          |    |  |  |    |    |                  |
|----------|----|--|--|----|----|------------------|
| S17<br>1 | 14 | (CCD and ((transfer adj signal) and (electronic adj signal) and storage and photoelectric\$4))   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:00 |
| S17<br>2 | 2  | (CCD and ((transfer adj signal) and (electronic adj (shutter and signal)) and storage and photoelectric\$4))                             | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 10:22 |
| S17<br>3 | 16 | ("4065788"   "4388646"   "4410787"   "4419012"   "4480919"   "4567347"   "5151608"   "5173750"   "5198877").PN. OR ("5739912").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 10:53 |
| S17<br>4 | 11 | "2323237"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/31 10:54 |
| S17<br>5 | 6  | "5821547"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/31 10:55 |
| S17<br>6 | 8  | ("5005085"   "5081530"   "5212667"   "5514887"   "5585652").PN. OR ("5821547").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 10:58 |
| S17<br>8 | 1  | (CCD and ((transfer adj signal) and (electronic adj signal) and storage and consecutiv\$4))  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:03 |
| S17<br>9 | 67 | (CCD and ((transfer adj signal) and (electronic adj signal) and storage and convert\$4))   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:04 |
| S18<br>0 | 1  | S179 and consecutiv\$4   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:03 |
| S18<br>1 | 5  | (CCD and ((transfer adj signal) and (electronic adj (shutter adj signal)) and storage and convert\$4))                                   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:10 |
| S18<br>2 | 2  | (CCD and ((transfer adj signal) and (electronic adj (shutter adj signal)) and storage and convert\$4) and synchron\$4)                   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/08/31 11:35 |

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|          |       |  |                              |    |    |                  |
|----------|-------|--|------------------------------|----|----|------------------|
| S18<br>3 | 1     | (CCD and (transfer adj signal) and (electronic adj (shutter adj signal)) and consecutiv\$4)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:36 |
| S18<br>4 | 11    | (CCD and (transfer adj signal) and (electronic adj (shutter adj signal)) and (contin\$4 or successiv\$3 or uninterrupt\$4 or repeat or consecutiv\$4))                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:38 |
| S18<br>5 | 12    | (CCD and (transfer adj signal) and (electronic adj (shutter adj signal)) and (contin\$4 or successiv\$3 or sequential\$4 or uninterrupt\$4 or repeat or consecutiv\$4))    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:43 |
| S18<br>6 | 8     | (CCD and (transfer adj signal) and (control\$4 same (electronic adj (shutter adj signal)) and (contin\$4 or sequential\$4 or repeat or consecutiv\$4)))                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:47 |
| S18<br>7 | 100   | maruno.in.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:44 |
| S18<br>8 | 861   | iwase.in.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:45 |
| S18<br>9 | 27961 | sato.in.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:45 |
| S19<br>0 | 1     | ((transfer adj signal) and (control\$4 same (electronic adj (shutter adj signal)) and (contin\$4 or sequential\$4 or repeat or consecutiv\$4))) and (S187 or S188 or S189) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:48 |
| S19<br>1 | 1     | ((transfer adj signal) and (control\$4 and (electronic adj (shutter adj signal)) )) and (S187 or S188 or S189)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:47 |
| S19<br>2 | 1     | ((transfer adj signal) and (electronic same (shutter adj signal))) and (S187 or S188 or S189)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:47 |
| S19<br>3 | 1     | (CCD and (transfer adj signal) and ((shutter adj signal)) )and (S187 or S188 or S189)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:48 |
| S19<br>4 | 1     | (CCD and (transfer adj signal) and ((shutter adj signal)) ) and (S187 or S188 or S189)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 11:48 |

## EAST Search History

|          |       |  |                              |    |    |                  |
|----------|-------|--|------------------------------|----|----|------------------|
| S19<br>7 | 6     | ("5065021").PN. OR ("5371377").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:02 |
| S20<br>3 | 35375 | ((("J/m") or joule)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:15 |
| S20<br>4 | 1024  | S203 and "250"\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:15 |
| S20<br>7 | 1970  | ((("J/m") )  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:15 |
| S20<br>8 | 3     | S207 and "250"\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:16 |
| S21<br>0 | 48    | image and record\$4 and (storage<br>adj panel) and (simulat\$4 and<br>energy)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/31 12:21 |
| S21<br>3 | 32    | ((CCD) and (control\$4 and<br>(shutter adj signal) and (transfer<br>adj signal)))  | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 12:50 |
| S21<br>4 | 18    | ((CCD) and (control\$4 and<br>(shutter adj signal) and (transfer<br>adj signal) and (sequential\$4 or<br>consecutiv\$4)))                    | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 12:52 |
| S21<br>5 | 4     | ((control\$4 and (shutter adj<br>signal) and (transfer adj signal)<br>and (sequential\$4 or<br>consecutiv\$4))) and "250"\$.ccls.            | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 12:53 |
| S21<br>6 | 9     | ((control\$4 and (shutter adj<br>signal) and (transfer adj signal)<br>and (sequential\$4 or<br>consecutiv\$4))) and (charge with<br>storage) | USPAT;<br>DERWENT            | OR | ON | 2007/09/04 08:17 |
| S22<br>0 | 5     | (shutter adj signal) and (transfer<br>adj signal) and (charge with<br>storage) and "250"\$.ccls.   | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:14 |
| S22<br>1 | 1174  | (pulse and (control\$4 and shutter<br>and transfer) and fluoresc\$4)   | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:19 |
| S22<br>2 | 5     | S221 and 250/484\$.ccls.   | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:16 |
| S22<br>3 | 502   | S221 and signal and CCD  | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:16 |
| S22<br>4 | 201   | S221 and "250"\$.ccls.   | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:20 |
| S22<br>5 | 43    | S221 and "378"\$.ccls.   | USPAT;<br>DERWENT            | OR | ON | 2007/08/31 13:20 |



## EAST Search History

|          |     |   |                   |    |    |                  |
|----------|-----|---|-------------------|----|----|------------------|
| S22<br>6 | 213 | (pulse and (control\$4 and (shutter<br>with signal) and (transfer with<br>signal)) and fluoresc\$4) | USPAT;<br>DERWENT | OR | ON | 2007/08/31 13:20 |
| S22<br>7 | 116 | S226 and (charge and stor\$4)   | USPAT;<br>DERWENT | OR | ON | 2007/08/31 13:20 |
| S22<br>8 | 26  | S227 and "250"\$.ccls.  | USPAT;<br>DERWENT | OR | ON | 2007/08/31 13:23 |
| S22<br>9 | 6   | S227 and "378"\$.ccls.  | USPAT;<br>DERWENT | OR | ON | 2007/08/31 13:20 |